

Title (en)
METHOD FOR PRODUCING MOTOR VEHICLE LOCKS WITH A TWISTED LOCKING PART EDGE

Title (de)
VERFAHREN ZUM HERSTELLEN VON KRAFTFAHRZEUGSCHLÖSSERN MIT TORDIERTER GESPERRETEILKANTE

Title (fr)
PROCÉDÉ DE FABRICATION DE SERRURES DE VÉHICULES À MOTEUR COMPORTANT UNE ARÊTE DE PARTIE DE CLIQUET TORDUE

Publication
EP 2932004 A2 20151021 (DE)

Application
EP 13840182 A 20131211

Priority

- DE 102012024379 A 20121212
- DE 2013000769 W 20131211

Abstract (en)
[origin: CA2903271A1] In order to minimize the sliding friction between the locking parts (30, 31) that is, between the pawl (5) and the rotary latch (2) of a motor vehicle lock (1), it is advantageous if, during the production process, the different latch surfaces (12, 13) of both locking parts (30, 31) are provided with a stamping contour (14) having straight grooves (17) and with a stamping contour (11) characterized in that the provided grooves (18', 19') are oblique. Said oblique grooves (18', 19') of the latch surface (13) on the pawl (5) are placed in the position indicated in figure (3) such that the entire pawl is twisted (5) about the longitudinal axis (38) thereof. Also, at least two overlapping points are provided between the straight grooves (17) and the oblique grooves (18', 19') such that both of the locking parts (30, 31) come into mutual contact reducing the friction.

IPC 8 full level
E05B 85/26 (2014.01); **E05B 77/36** (2014.01); **E05B 77/40** (2014.01)

CPC (source: EP US)
E05B 77/36 (2013.01 - EP US); **E05B 79/10** (2013.01 - US); **E05B 85/243** (2013.01 - US); **E05B 85/26** (2013.01 - EP US); **B21D 28/16** (2013.01 - EP US); **B21D 53/38** (2013.01 - EP US)

Citation (search report)
See references of WO 2014090214A2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
DE 102012024379 A1 20140327; BR 112015013442 A2 20170711; CA 2903271 A1 20140619; CN 104981579 A 20151014; CN 104981579 B 20170315; EP 2932004 A2 20151021; EP 2932004 B1 20170215; JP 2016505734 A 20160225; KR 20150093817 A 20150818; MX 2015007350 A 20150910; RU 2015127198 A 20170112; US 2015308166 A1 20151029; US 9856680 B2 20180102; WO 2014090214 A2 20140619; WO 2014090214 A3 20141030

DOCDB simple family (application)
DE 102012024379 A 20121212; BR 112015013442 A 20131211; CA 2903271 A 20131211; CN 201380072623 A 20131211; DE 2013000769 W 20131211; EP 13840182 A 20131211; JP 2015546849 A 20131211; KR 20157018486 A 20131211; MX 2015007350 A 20131211; RU 2015127198 A 20131211; US 201314649937 A 20131211